# Material Safety Data Sheet

according to Regulation (EC) No 1907/2006

## LITHOPONE 30 %

**Print date:** 05/11/2010 **Approval date:** 12/14/2009 **Revision:** 10

SACHTLEBEN

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

· **Identification of the preparation/substance**

Product code: LITHOPONE 30 %
Types: DS, L, E

· **Manufacturer / supplier:**

Sachtleben Chemie GmbH
Dr.-Rudolf-Sachtleben-Str. 4
D-47198 Duisburg, Germany
Telephone: +49 2066 22-0
Telefax: +49 2066 22-2000
E-Mail: info@sachtleben.de

**Use of the substance / preparation:** white pigment for paints, coating and paper, white pigment for plastics

· **Emergency phone:**

+49 30 30686 790 Giftnotruf Berlin (German/English)
+1 800 255 3924 CHEMTEL (U S A)
+358 9 471 977 or +358 9 4711 Poison Information Center (Finland)

· **Product Safety:** E-Mail: w.gruener@sachtleben.de

## 2. HAZARDS IDENTIFICATION

· **Most important hazards:**

The product is not considered hazardous according to the EEC directive 67/548/CE and the OSHA Hazard Communication Standard 29 CFR 1910.1200. With acids formation of Hydrogen Sulfide
HMIS Ratings: Health: 1 - Flammability: 0 - Reactivity: 1

## *3. COMPOSITION/INFORMATION ON INGREDIENTS

· **Chemical characterization of the substance:**

| CAS-Nr. | Substance identification acc. to EC directive | Danger symbol | Risk-phrases |
|---|---|---|---|
| 1314-98-3<br>7727-43-7 | Zinc sulfide, approx. ZnS 30 %<br>Barium sulfate, $BaSO_4$ approx. 70 % (coprecipitated) | - | - |

Identification: C.I. 77115 Pigment white 5
EINECS-Nr.: 215-715-5

## 4. FIRST AID MEASURES

· **General indications:**
· **Inhalation:** Fresh air.
· **Skin contact:** Wash off with water.
· **Eye contact:** Rinse out with plenty of water.
· **After swallowing :** Make victim drink plenty of water. Induce vomiting. Consult doctor in the event of any complaints.

## 5. FIRE-FIGHTING MEASURES

· **Suitable extinguishing media:** In adaption to materials stored in the immediate neighbourhood.
· **Special exposure hazards:** Non-combustible. Ambient fire may liberate hazardous vapours. The following may develop in event of fire: hydrogen sulfide, sulfur oxides.
NFPA Ratings: Health 1 - Flammability: 0 - Reactivity: 1
· **Special protective equipment for firefighters:** Do not stay in dangerous zone without self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

· **Personal precautions:** Avoid generation of dusts; do not inhale dusts.

· **Environmental precautions:** No further measures
· **Methods for cleaning up:** Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

## 7. HANDLING AND STORAGE

· **Handling:**
Safe handling advice: No special measures.

· **Storage:**
Storage conditions/packing material: Store in original containers in a dry and cool area.
Incompatible products: No storage near of acid

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

· **Engineering measures:** Maintain exposures below applicable exposure limits:

· **Control parameters**

| CAS-Nr. | Substance identification | type | Value | Unit |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 7727-43-7 | Barium sulfate | TEL (UK) | 4 (respirable dust)<br>10 (total dust) | mg/m³<br>mg/m³ |
| | | OSHA PEL(USA) | 15 (total dust)<br>5 (respirable dust) | mg/m³<br>mg/m³ |
| | | ACGIH TLV(USA) | 10 | mg/m³ |
| 1314-98-3 | Zinc sulfide | ACGIH TLV(USA)<br>OSHA/PEL(USA) | 15<br>15 | mg/m³<br>mg/m³ |

· **Personal protection equipment**

Industrial hygiene measures: Keep in clean conditions. Avoid dust formation

Respiratory protection: A respirator must be used if the dust concentration is likely to exceed the Occupational exposure limit. At higher concentrations wear particle filter DIN EN 143 - P2. or equivalent approved by NIOSH.

Hand protection: Prolonged exposure should be avoided by wearing suitable protective gloves and clothing:
In full contact:
Glove material: nitrile rubber
Layer thickness: 0.11 mm
Breakthrough time: > 480 Min
In splash contact:
Glove material: nitrile rubber
Layer thickness 0.11 mm
Breakthrough time: > 480 Min

Eye protection: The use of an approved dustproof goggles is recommended if the dust concentration is likely to exceed the Occupational exposure limit

Skin protection: Barium Sulfates and Zinc Sulfates are not irritant but as with all fine powders can absorb moisture and natural oils rom the surface of the skin during prolonged exposure. Prolongued exposure should be avoided by wearing suitable protective gloves and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

· **Appearance**

**Physical State:** powder **Colour:** white **Odour:** none

· **Critical Data**

Melting point or range: ZnS > 1,180°C (subl.)
BaSO4 > 1,350 °C

Flash point: n. a.

Explosive properties: No danger of explosion

Vapour pressure: n. a.

Density: approx. 4.3 g/ml

Solubility: < 0.01 g/l

pH-value: approx. 7

## 10. STABILITY AND REACTIVITY

· **Conditions to avoid:** Oxidizing flame: > 570°C
Reducing flame: > 875 °C

· **Hazardous decomposition products:** With acids formation of Hydrogen Sulfide

## 11. TOXICOLOGICAL INFORMATION

· **Toxicological informations**

| | |
|---|---|
| Acute toxicity: | $LD_{50}$ (rats, oral) > 15,000 mg/kg |
| Local effects: | Not toxic |

· **Practicle experience:** Not irritating to eyes and skin

## 12. ECOLOGICAL INFORMATION

· **Further ecological information**

| | |
|---|---|
| General information: | Practically insoluble in water and without any environmental hazard |

## 13. DISPOSAL CONSIDERATIONS

· **Residues**

| | |
|---|---|
| Reference: | No hazardous waste according to European Directive 91/689/EEC and RCRA ( Resource Conservations and Recovery Act - USA). Place in an appropriate disposal facility in compliance with local and national regulations. |

· **Contaminated packaging**

| | |
|---|---|
| Reference: | Containers that cannot be cleaned must be treated as waste and disposed of in an approved industrial incineration facility. The empty and clean containers may be reused in conformity with regulations. |
| Cleanser: | water |

## 14. TRANSPORT INFORMATION

· **Further information:**

The product is not classified as a hazardous material according to the DOT, ADR/RID, IMDG, IATA on the transport of dangerous or hazardous goods.

## 15. REGULATORY INFORMATION

· **According to the CPL regulation 1984, as amended, the product is classified as follows:**

| | |
|---|---|
| Dangerous group and symbol: | The product is not considered hazardous by the EEC directive 67/548/CE and the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Dangerous ingredient for labelling: | No special EEC labeling required. This product is labeled in accordance with OSHA's Hazard Communication Standard. |

· **National rules**

Water pollution class (in Germany): not harmful to water

**National regulations**

SARA Title III Sec. 302/303 (Extremely Hazardous Substances):
Not listed
SARA Title III Sec. 311/312 (40 CFR 370):
Hazard Category: None
SARA Title III Sec. 313 (Toxic Chemicals Emissions Reporting):

Product contains zinc sulfide which is subject to the reporting requirements.
CERCLA Hazardous Substance (40 CFR Part 302):
Unlisted hazardours waste characteristics: Zinc Compounds
CANADA WHMIS
Uncontrolled product according to WHMIS classification criteria.

**National registrations**

| | |
|---|---|
| EINECS: (European Inventory of Existing Commercial Chemical Substances) | all components listed |
| ELINCS: (European List of Notified Chemical Substances) | not listed |
| TSCA: (Toxic Substances Control Act (EPA-Inventory) | all components listed |
| AICS: (Australien Inventory of Chemical Substances) | all components listed |
| DSL: (Canadien Domestic Substances List) | all components listed |
| NDSL: (Canadien Non-Domestic Substances List) | not listed |
| KECI: (Korean Existing Chemicals Inventory) | all components listed |
| PICCS: (Philippinian Inventory of Commercial Chemical Substances) | all components listed |
| BAGT: (Giftliste des Bundesamts für Abfall und Gesundheitswesen der Schweiz) | all components listed |
| METI: (Ministry of Economy, Trade an Industry - Japan) | all components listed |
| SEPA: (State Environmental Protection Administration - China) | all components listed |

## 16. OTHER INFORMATION

The data given here are based on current knowledge and experience. The purpose of this Material Safety Data Sheet is to describe the product in terms of its safety requirements. The data do not signify any warranty with regard to the product's properties.